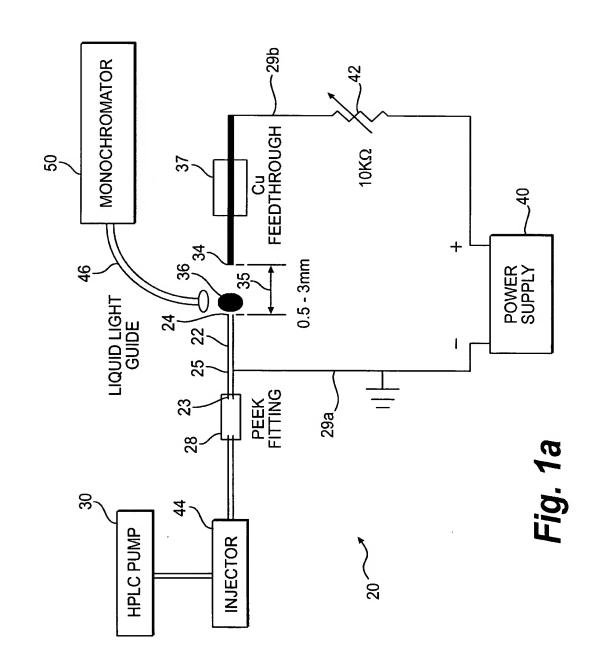
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BASIC LS-APGD SOURCE OPERATION

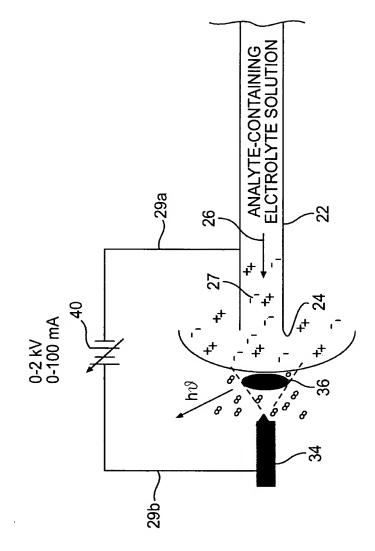


Fig. 1b

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PROPOSED IMPLEMENTATION OF LS-APGD WITH MICROFLUIDIC DEVICES

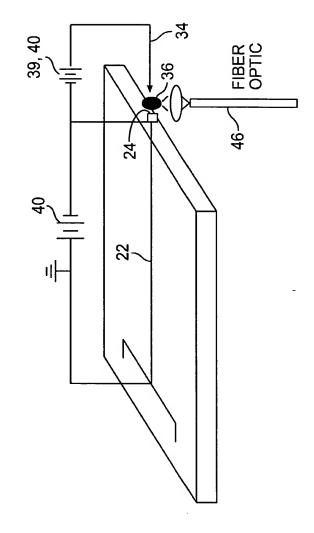


Fig. 1c

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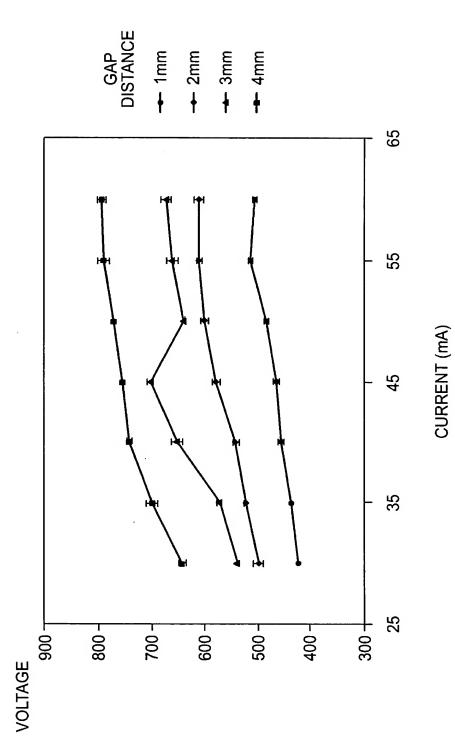


Fig. 2a

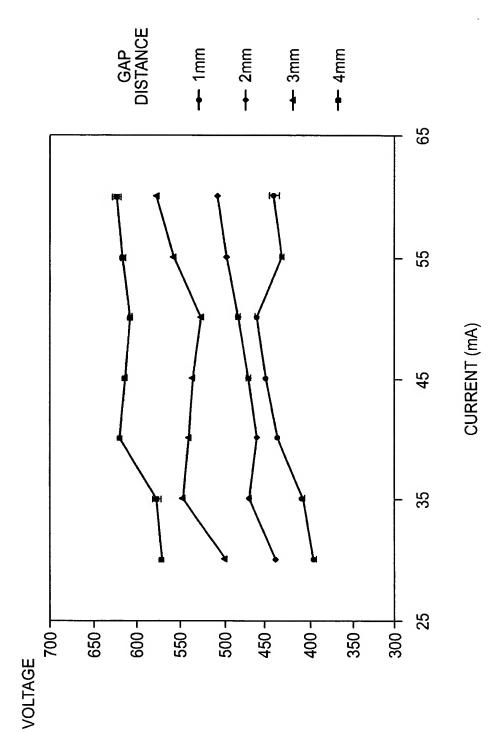


Fig. 2b

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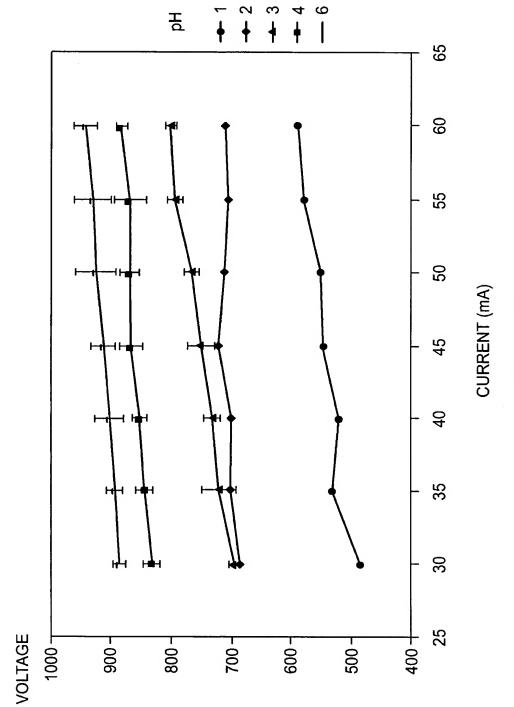
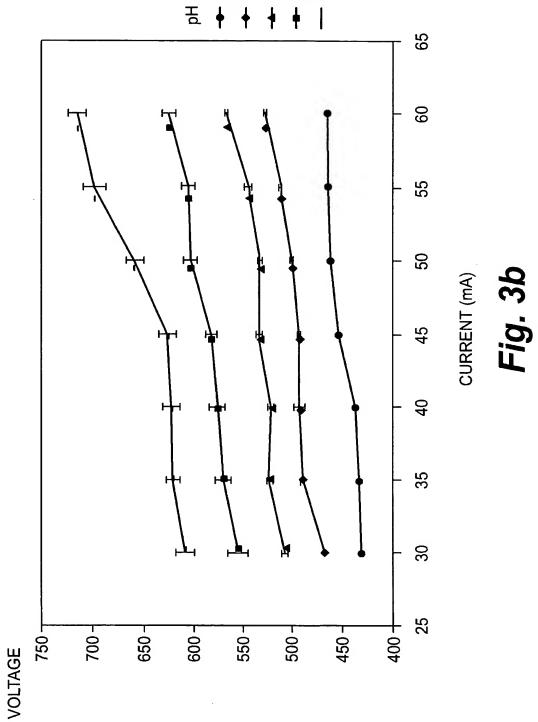
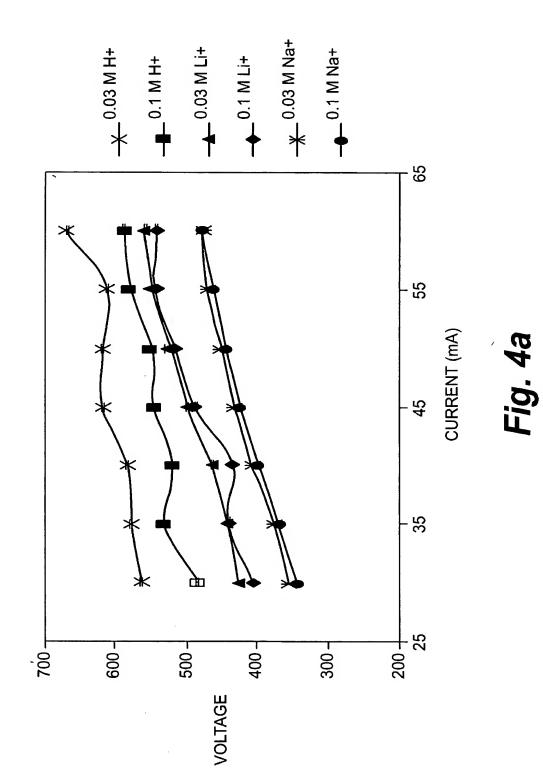


Fig. 3a





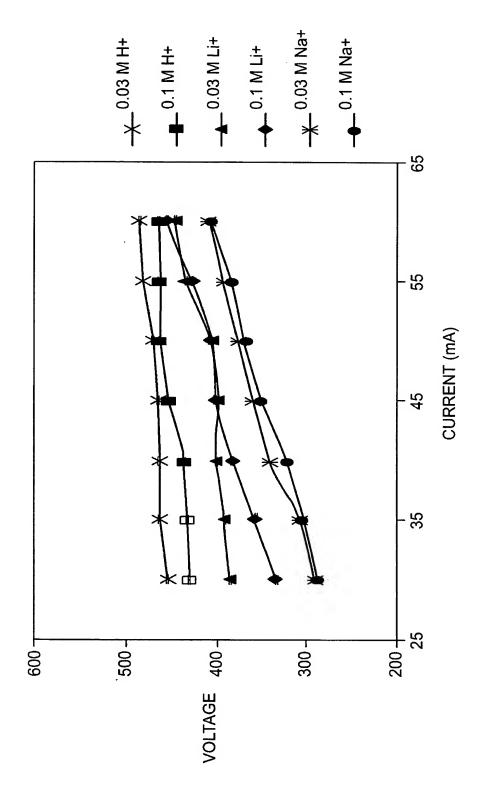


Fig. 4b

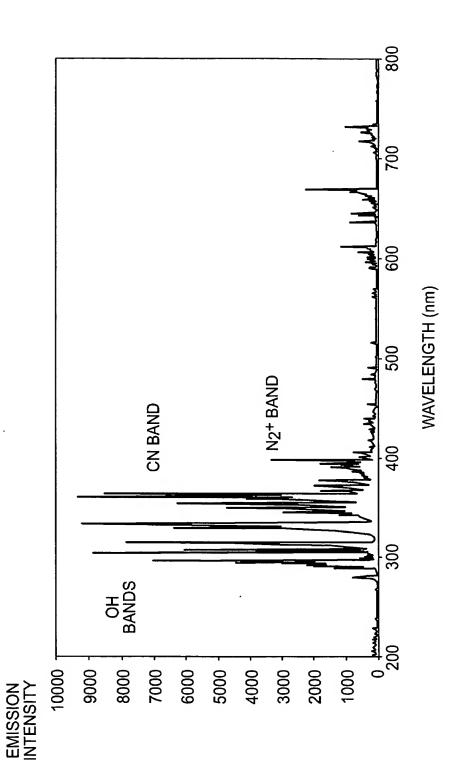
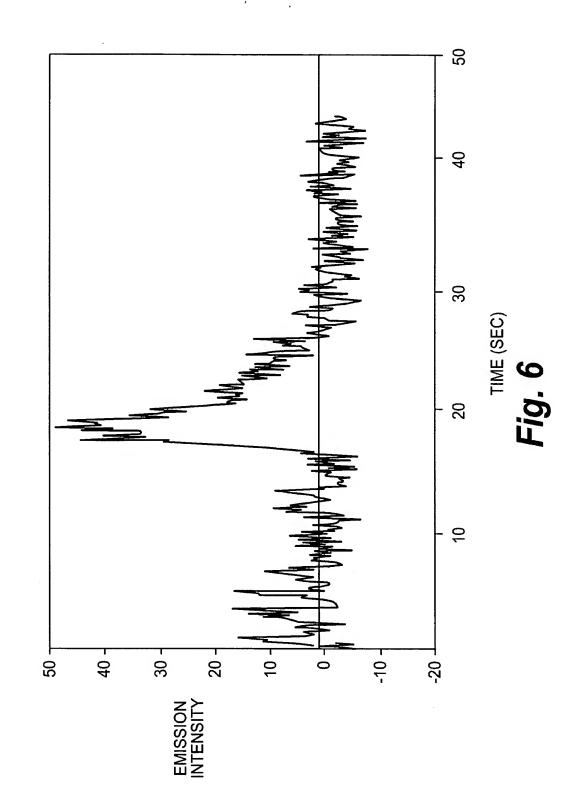
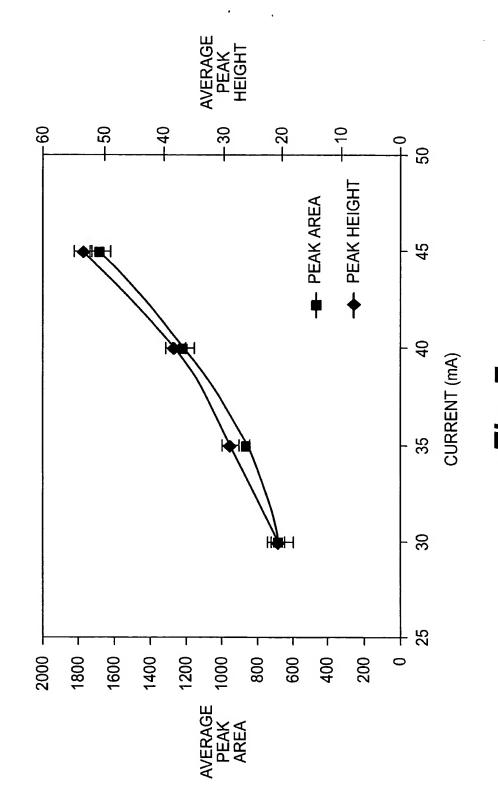


Fig. 5





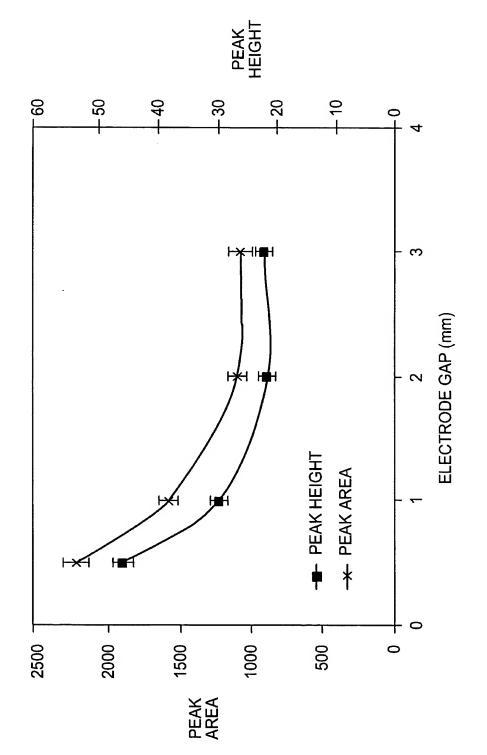
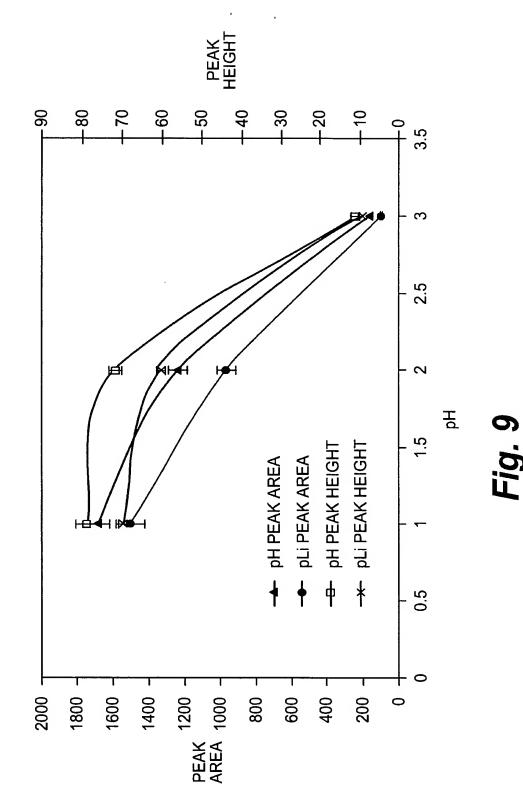


Fig. 8

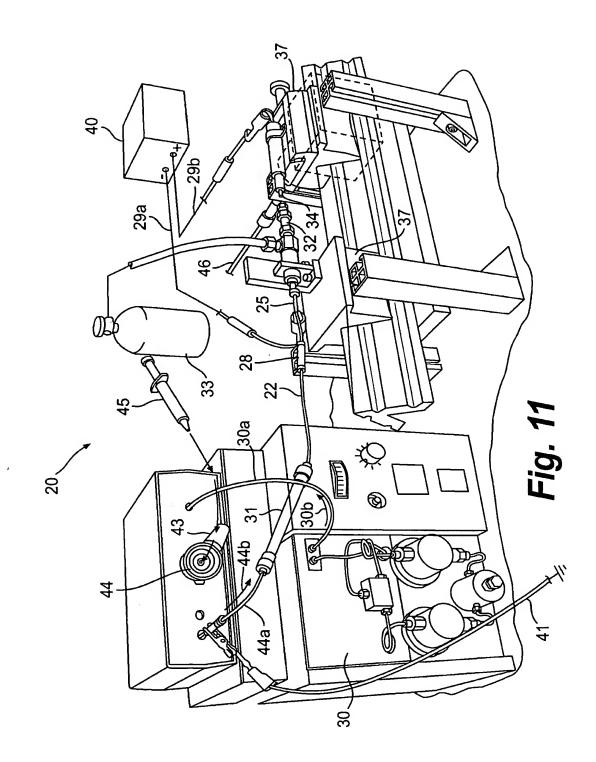


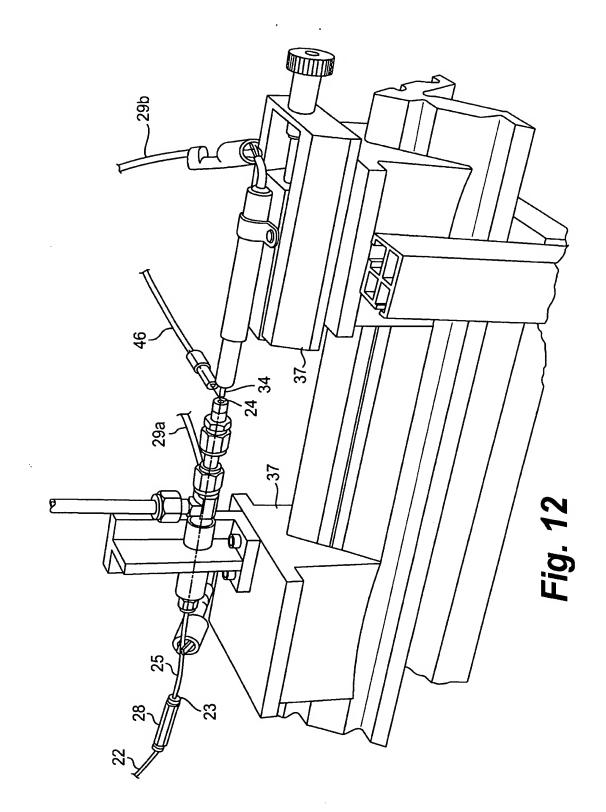
REPLACEMENT SHEET

ANALYTICAL RESPONSE FUNCTIONS AND LIMITS OF DETECTION FOR THE LS-APGD DEVICE. SOLUTION FLOW RATE = 1 mL/MIN., ELECTROLYTE pH = 1, INTER ELECTRODE GAP = 1 mm, INJECTION VOLUME = 5μ L.

ELEMENT	ELEMENT WAVELENGTH (nm)	PEAK HEIGHT EQN. R ²	PEAK AREA EQN.	LOD LOD
Na	589.0	Y=0.421x + 42.8 0.9859	Y=0.421x + 42.8 0.9859 Y=15.81x + 978.6 0.9784	12 (60)
Fe	248.3	Y=1.06x - 102.1 0.9365 Y=45.80x - 6649 0.909	Y=45.80x - 6649 0.909	12 (60)
ЬЬ	405.8	Y=1.18x - 10.45 0.977	Y=1.18x - 10.45 0.977 Y=16.16x - 419.7 0.9298	14 (70)

Fig. 10





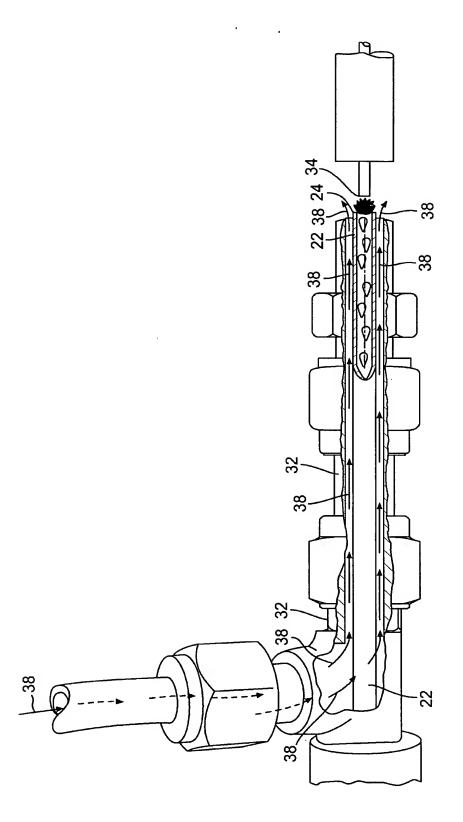


Fig. 13

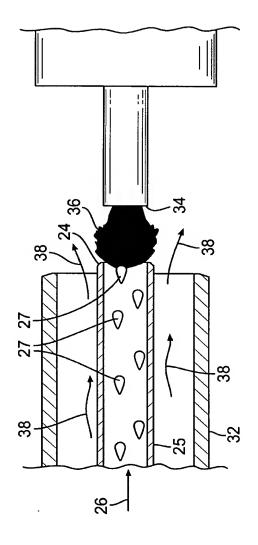
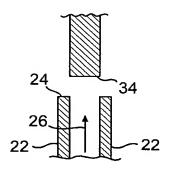


Fig. 14

REPLACEMENT SHEET



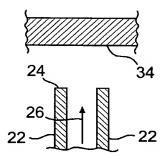
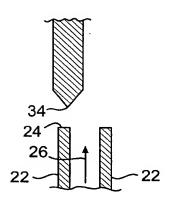


FIG. 15A

FIG. 15B



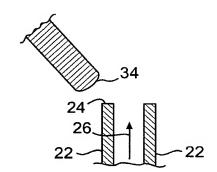


FIG. 15C

FIG. 15D

